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## A CLASSIFIED LIST OF FERTILIZER DISTRIBUTING MACHINES AND DEVICES ON THE MARKET

Compiled by

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This partial list of machines and general specifications was taken from such manufacturers' literature and other records (1934 to 1936) as could be obtained by the Bureau of Agricultural Engineering, United States Department of Agriculture, Washington, D. C.

Note. (a) Refers to specifications on which information either was not given or was indefinite in the records on file.

## 1. WHEELLESS DISTRIBUTING EQUIPMENT -- CARRIED AND HAND OPERATED

Manufacturer	Trade name or Catalog No.	General type of machine	Size or area covered	General type of fertilizer dispenser	Rates in lbs./A	Crops or conditions intended for	Placement of the fertilizer in the soil
Acer and Thedon, Inc.	A & T Hinger	Vertical cylinder	1 hill	Conc valve, gravity feed (a)	1 to 4 lbs./H	Plants or hills	Ring 8" Dia. on surface around hill
Acme Line Mfg. Co.	Acme 308	Hand corn planter attach.	1 hill	Conc valve, gravity feed (a)	1 to 4 lbs./H	Corn, etc.	Spot at side of hill level with seed
do	Acme 315	Bucket type	1 spot	Agitator (a)	1 to 4 lbs./H	Gen'l. small areas	Circular spot on surface
Bradley, David, Mfg. Works	6257	Hand corn planter attach.	1 hill	Ball plunger & valve	Max. 1 lb/H	Corn, etc.	Ring 8" Dia. on surface around plant
Browning and Son	Circle A, B, C	Container, hand carried	1 hill	Ball plunger & valve	Max. 1 lb/H	Plants or hills	Ring 8" Dia. on surface at side of plant
do	Circle E	Container, hand carried	1 hill	Knocker (scatterer) (a)	100 to 300	Plants or hills	Band 3 by 12" on surface
Ovalone Seeder Co.	Ho-ou-t	Shoulder sack with tube	1 spot	Gravity & plate-fan (a)	100 to 300	Gardens, etc.	Spot on surface
do	Dual purpose	Broadcaster, centrifugal	16 ft.	Gravity & plate-fan (a)	100 to 300	Granular fert.	Broadcast on surface
Farlie Machine Co.	Gem	Hand corn planter attach.	1 hill	Plunger (a)	50 to 350	Corn, etc.	Spot in hill
Heronek Mfg. Co.	Invincible	Vertical cylinder	1 hill	Oscillating cell plate (a)	50 to 350	Plants or hills	Ring on surface around hill
Wetmore, Adolph, C.	Economy	Vertical cylinder	1 hill	Gravity, Vertical rotating scatterer (a)	50 to 350	Plants or hills	Ring 11" Dia. on surface around hill
Goodell Co.	Oakwood	Broadcaster, centrifugal	1 hill	Vertical rotating scatterer (a)	50 to 350	Gardens, etc.	Broadcast on surface
Plant Food Appliance Co.	Little Wonder	Jabber type	1 hill	Vertical rotating scatterer (a)	50 to 350	Plants or hills	Spot at each side of row at the hill
2. BROADCAST DISTRIBUTORS, WHEEL, TYPE -- PUSHED BY HAND							
Allen, S. L. & Co. Inc.	Planet Jr 220	Wheelbarrow	12 - 22"	Knocker	200 to 2000	Row crops	Broadcast or band on surface through tubes, adj.
do	Planet Jr 235	Seatter. att. on 220 Distr	36"	Knocker	200 to 2000	Golf Greens, etc.	Broadcast on surface
do	Planet Jr 210	Cart	14"	Agitator-adj. openings	200 to 500	Gen'l. fert.	Broadcast or bands on surface, control openings
American Cranamid Co.	Aero	Hopper planter only	As built	Rotating blades	200 to 500	Lawn, etc.	Broadcast on surface
Bradley, David, Mfg. Works	6156 & 6157	Cart	16" & 30"	Revolving agitator	200 to 500	Lawn, etc.	Broadcast on surface
do	6155	Cart	30"	Wobbie screw agitator	200 to 500	Lawn, etc.	Broadcast on surface
Campbell-Hausfeld Co.	Campbell	Cart	36"	(a)	200 to 500	Lawn, etc.	Broadcast on surface
do	Paragon	Cart	Max. 36"	Vibrator	200 to 500	Row crops	Broadcast or band on surface thru adj. tubes
Cole Mfg. Co.	Fructers Jr. 52	Wheelbarrow	10 ft.	Double chain	0 to 2500	Gen'l	Broadcast or band on surface thru adj. tubes
Eastern States Farmers Exch.	Eastern States	Wheelbarrow	1 row width	Endless belt	0 to 2500	Gen'l	Broadcast or band on surface thru adj. tubes
Farquhar, A. B., Co. Ltd.	McMorther 21	Wheelbarrow	17 to 30"	(a)	0 to 2500	Lawn, etc.	Broadcast on surface
Poole, J. B., Foundry Co.	Panama	Cart	22 & 34"	(a)	0 to 2500	Lawn, etc.	Broadcast on surface
Hampshire Implement Co.	Stevens	Cart	21"	Spiral agitator	0 to 2500	Lawn, etc.	Broadcast on surface
Hoefl and Co., Inc.	Mo'e's 500	Cart	16"	Spiral agitator	0 to 2500	Lawn, etc.	Broadcast on surface
do	Mo'e's 505	Cart	12 ft.	Rotating agitator	0 to 2500	Gen'l	Broadcast on surface
Holden Co.	Junior	Cart, centrifugal	16"	Rotating agitator	0 to 2500	Lawn, etc.	Broadcast on surface
Masters Planter Co.	Masters (three)	Cart	16, 24, 36"	Rotating agitator	0 to 2500	Lawn, etc.	Broadcast on surface
do	So-rite, JEM	Wheelbarrow	Max. 24"	Reel agitator	100 to 3000	Row crops	Broadcast or band on surface thru adj. tubes
Root Mfg. & Supply Co.	All purpose	Cart	36"	Triple roll agitator	100 to 3000	Gen'l	Broadcast on surface
Salem Pool Co.	Hoffman (three)	Cart	14, 18, 30"	Reel agitator	120 to 5000	Lawn, etc.	Broadcast on surface
do	Salem (several)	Cart	2 to 6 ft.	Reel agitator	wide range	Parks, etc.	Broadcast on surface
Smith Agri. Chemical Co.	Sacco (two)	Cart	18 & 30"	Rotating agitator	(a)	Lawn, etc.	Broadcast on surface
Standard Equipment Co.	Bawks	Cart	20"	Triple cylinder	(a)	Lawn, etc.	Broadcast on surface
Thompson, O. M., & Sons	Lamette (six)	Cart	14 to 36"	(a)	(a)	Gardens, etc.	Broadcast on surface
do	Thompson 105	Wheelbarrow	6 ft.	(a)	(a)	Gen'l	Broadcast or bands on surface (tubes removable)
do	Royal 210	Wheelbarrow	10 ft.	(a)	50 to 125	Golf courses, etc.	Broadcast on surface
Fairray 106	Wheelbarrow	3 & 6 ft.	Vibrator	535 to 2000	Golf courses, etc.	Broadcast on surface	
Thompson 112, 110	Wheelbarrow	6 ft.	Vibrator	435 to 4300	Parks, etc.	Broadcast on surface	
Thompson 208	Cart	1 row width	Vibrator pan	Wide range	Row crops	Broadcast or bands on surface thru adj. tubes	
Todd Co., Inc.	Poda 0	Wheelbarrow					



Table II (page 2)

## 3. BROADCAST DISTRIBUTORS AND DRILLS, WHEEL TYPE - HORSE DRAWN

Manufacturer	Trade name or Catalog No.	General type of machine	Size or area covered	General type of fertilizer dispenser	Rates in lbs./A	Crops or conditions for which intended	Placement of the fertilizer in the soil
Bradley, David, Mfg. Wks. do	Cart, 2-horse	8 ft.	Paddle agitator	250 Min.	General	Broadcast or bands on surface	
Caledonia Bean Harry, Wks.	Cart, 1-horse	6 ft.	Paddle agitator	250 Min.	General	Broadcast or bands on surface	
Crown Mfg. Co.	Cart, 2-horse	5 to 10 ft.	Rotating agitator	200 to 4000	Gen'l. lime	Broadcast on surface	
Farm Tools, Inc. do	Cart, 2-horse	8 ft.	Rotating wing agitator	(a)	Gen'l. lime	Bands in furrows 7 or 12" apart	
Hampshire Implement Co. do	Cart, 2-horse	6 1/4, 20 tube	Star wheel with adj. gate	(a)	Onions, egg-crops	Broadcast on surface	
Stevens 5	Cart, 1-horse	8 ft.	Finger wheel	100 to 6000	General	Broadcast on surface	
Stevens 8	Cart, 2-horse	8 ft.	Reel agitator	500 to 8000	General	Broadcast on surface	
Universal	Cart, 1 and 2-horse	2 1/2 to 5 ft.	Rotating agitator	500 to 8000	General	Broadcast or bands on surface	
Holden Co. do	Cart, centrifugal	12 ft.	Rotating agitator	(a)	General	Broadcast on surface	
International Harv. Co. do	Cart, 1 and 2-horse	7 and 9 ft.	Reciprocating feed plates	10 to 2350	General	Broadcast on surface	
McC-Deering	Cart, 2-horse	8 ft.	Rotating wing agitator	105 to 13000	General, lime	Broadcast on surface	
IL-Acme 6, 8, 10	Cart, 1 and 2-horse	6 and 8 ft.	Rotating wing agitator	Wide range	General, lime	Broadcast on surface	
Nonpareil	Cart, horse & tractor	4 and 5 ft.	Reel agitator	100 to 5000	General	Broadcast in bands in furrows 7" apart	
Ohio Cultivator Co. do	Cart, 2-horse	9 ft.	Finger wheel	15 to 5100	General	Broadcast on surface	
Thomas	Cart, 2-horse	8 ft.	Rotating wing agitator	300 to 6000	General, lime	Broadcast on surface	
Superior 1	Cart, 2-horse	6 to 12 tube	Finger wheel	40 to 2000	General	Broadcast or bands on surface thru adj. tubes	
Superior 16	Cart, 2-horse	6 and 8 ft.	Rotating wing agitator	Wide range	General, lime	Broadcast on surface	
Ontario B	Cart, 2-horse	2 to 10 ft.	Reel agitator	200 to 5000	General	Broadcast on surface	
Ontario H	Cart, 1 and 2-horse	8 and 10 ft.	Rotating wing agitator	(a)	Gen'l. phosphate	Broadcast on surface	
Self Mfg. Co. do	Cart, 2-horse	1 to 8 ft.	Vibrating pan	(a)	General	Broadcast or bands on surface thru adj. tubes	
Todd Co. Inc. do	Cart, 1-horse, tractor, truck	8 ft.	Vibrating pan	200 to 8000	General	Broadcast on surface	
Van Brunt Mfg. Co. (Deere) do	Cart, horse, tractor, truck	8 ft.	Rotating wing agitator	45 to 4950	General, lime & F.	Broadcast on surface	
Van Brunt A	Cart, 1 and 2-horse	6 and 10 ft.	Star wheel with adj. gate	25 to 6000	General	Broadcast on surface	
Wade, R. M., Co. do	Cart, 1 and 2-horse	6 and 10 ft.	Rotating agitator			Broadcast on surface	

## 4. BROADCAST DISTRIBUTORS AND DRILLS, WHEEL TYPE - TRACTOR AND TRUCK DRAWN

Burch Corporation	Master	Cart, trailer for truck	Approx. 20 ft.	(a), & 2 plate-fan scatterers	(a)	Lime materials	Broadcast on surface
Greenville Mfg. Works	AA Grits	Cart, trailer for truck	8 ft.	Roller	Wide range	Lime materials	Broadcast on surface
Haines, W. D.	Universal	Cart, tractor	10 & 12 ft.	Rotating agitator	Wide range	General	Broadcast on surface
Porter Elevator Mfg. Co.	Little Giant	Trailer, centrifugal	16 ft.	& 2 plate-fan scatterers	100 to 8000	General	Broadcast on surface (listed under Sec. 5)
Thompson, O. E., & Sons	Fairway 915	Cart, truck or tractor	9 ft.	(a), & 2 plate-fan scatterers	(a)	General	General
Van Brunt Mfg. Co. (Deere)	Van Brunt H	Cart, horse, tractor, truck	8 ft.	Rotating wing agitator	200 to 8000	General	General
do	Van Brunt A	Cart, horse, tractor, truck	8 ft.	Star wheel with adj. gate	45 to 4950	General, lime & F.	Broadcast on surface (also listed under Sec. 3)

## 5. BROADCAST DISTRIBUTORS, WAGON ENDGATE TYPE

A-C Manufacturing Co.	Endgate, centrifugal	16 to 25 ft.	Endless chain & 2 plate-fan scatterers	500 to 800	General	Broadcast on surface	
American Cyanamid Co.	Hopper, plans only	As built	Gravity - adjustable openings	(a)	General	Broadcast or bands on surface thru selected	
Bradley, David Mfg. Works	Trailer, centrifugal	(a)	Agitator & 2 plate-fan scatterers	200 to 500	General	Broadcast on surface	
do	Endgate, centrifugal	(a)	Worm & 2 plate-fan scatterers	150 Min.	General	Broadcast on surface	
Farm Tools, Inc.	Endgate, centrifugal	20 ft.	(a), & 2 plate-fan scatterers	(a)	General	Broadcast on surface	
Geyer Mfg. Co.	Trough hopper, del. tubes	Est. 5 ft.	Rotating wing agitator	(a)	General	Broadcast on surface	
Holden Co. do	Endgate, centrifugal	20 ft.	Auger & 2 plate-fan scatterers	75 to 10000	General	Broadcast on surface	
International Harv. Co.	Endgate, centrifugal	20 ft.	Auger & 1 plate-fan scatterer	100 to 10000	General	Broadcast on surface	
Neway Spreader Co.	Endgate, centrifugal	15 ft.	(a), & 2 plate-fan scatterers	Wide range	General	Broadcast on surface	
Portable Elevator Mfg. Co.	Trailer, centrifugal	16 ft.	Rotating agl. & 2 plate-fan scatterers	100 to 8000	General	Broadcast on surface	
Red Cross Mfg. Co.	Endgate, centrifugal	20 ft.	Vibrator	150 to 10000	General	Broadcast on surface	
Rahm Phosphate & Chem. Co.	Trough hopper	10 ft.	Vibrator pan	100 to 3000	General	Broadcast on surface	

Allen, S. L., & Co., Inc.	Planet Jr 220	Wheelbarrow, hand & horse	1 row	Knocker	200 to 2000	Row crops	
Colle Mfg. Co.	Tractracs F.52	Wheelbarrow, hand & horse	1 row	Vibrator	(a)	Row crops	
Ellis-Keyesons Agric. Wks.	Iron Age 323	Two-wheel	1 row	Rotating plate & descending scraper	(a)	Vegetable crops	
Fargnani, A. B., Co., Ltd.	McHorter 21	Wheelbarrow	1 row	Endless belt	0 to 2500	Row crops	
Pender Mfg. & Supply Co.	So-rite 5HM	Wheelbarrow	1 row	Reel agitator	100 to 3000	Gardens, lawns	
Thompson, O. M., & Sons	Thompson 108	Wheelbarrow	1 row	(a)	Row crops	Row crops	
Todd Co., Inc.	Todd 0	Wheelbarrow	1 row	Vibrating pan	100 to 3000	Row crops	



Table II (page 2)

7. ONE-ROW DISTRIBUTORS - HORSE DRAWN

Manufacturer	Trade name or Catalog No.	General type of machine	General type of fertilizer dispenser	Rates in Lbs./A	Crops	Placement of the fertilizer in the soil
Allen, S.H. & Co., Inc.	Planet Jr 220	Walking, 1 front wheel, 1 horse	Knocker Rotating agitator	200 to 2000	Row Crops	6" band in open furrow thru adj. tubes
Avery, B.F. & Sons Co. (Knocker, Knock-out K-7)	Pat Quano	Walking, 1 rear wheel, 1 horse	Knocker hopper	(a)	Row Crops	4" band in shovel furrow 0 to 8" deep
do	Vibrator 1	Walking, 1 rear wheel, 1 horse	Vibrating open-end pan	(a)	Row Crops	4" band in shovel furrow 0 to 8" deep
do	Vibrator 2	Walking, 1 front wheel, 1 horse	Vibrating open-end pan	(a)	Row Crops	4" band in surface or in open furrow and covered
do	Sugarland	Riding, cart, 2 horse	Rotating plate	(a)	Row Crops	Band on surface each side of row. (for sugar cane)
Blount Plow Works	Blount 0 & 8	Walking, 1 rear wheel, 1 horse	Rotating agitator	(a)	Row Crops	Band in shovel furrow, depth adj.
do	Blount 1 & 9	Walking, 1 rear wheel, 1 horse	(1) Knocker H, (2) Vibrating pan	(a)	Row Crops	Band in shovel furrow, depth adj.
Blount, John	Rex	Walking, 1 front wheel, 1 horse	Tapered screw	(a)	Row Crops	Band in open furrow and covered
Camp, E.N. & Sons Co.	Say	Walking, 1 rear wheel, 1 horse	Knocker	(a)	Row Crops	Band in shovel furrow, depth adj.
Cass, J.I. Co.	Case 36	Walking, 1 front wheel, 1 horse	Star wheel	(a)	Row Crops	Band in shovel furrow, depth adj.
Cokers Pedigreed Seed Co.	Cokers 52	Walking, 1 front wheel, 1 horse	Propeller	100 to 1000	Row Crops	Band in open furrow and covered
do	Cokers Soda	Walking, 1 front wheel, 1 horse	Grinding wheel	125 to 2000	Row Crops	Band in open furrow and covered
Cole, Mfg. Co.	Cole 20	Walking, 2 wheel, 1 horse	Grinding wheel	50 to 600	Row Crops	Band on surface to one side (two rows)
do	Cole 21	Walking, 1 front wheel, 1 horse	Knocker	(a)	Row Crops	Band in open furrow, depth adj.
do	Cole 22 & 27	Walking, 1 rear wheel, 1 horse	(a)	Row Crops	Band in open furrow and covered	
do	Cole 23	Walking, 1 front wheel, 1 horse	Knocker	(a)	Row Crops	Band in open furrow and covered
do	Cole 24	Walking, 1 rear wheel, 1 horse	Rotating pan with plow	(a)	Row Crops	Band in shovel furrow, depth adj.
do	Cole 26	Walking, 1 front wheel, 1 horse	(a)	Row Crops	Wide band in open furrow and covered	
do	Cole 28	Walking, 1 rear wheel, 1 horse	(a)	Row Crops	Band in shovel furrow, depth adj.	
do	Vibra-Knock 29	Walking, 1 rear wheel, 1 horse	Vibrating hopper bottom	(a)	Row Crops	Band in shovel furrow, depth adj.
do	Accur. Mass. 48	Walking, 1 rear wheel, 1 horse	Rotating double plate	(a)	Row Crops	Band in open furrow and covered
do	Circle Knock 50	Walking, 1 front wheel, 1 horse	Knocker (Oscill. Dished plate)	Mar. 2500	Row Crops	Wide band in open furrow and covered
do	Truckers F. 52	Walking, 1 front wheel, 1 horse	Vibrator	(a)	Row Crops	Band in open furrow or broadcast Max. 36" on surface
do	Cole 60	Walking, bedding disks, 1 horse	Rotating dished plate	Mar. 3000	Row Crops	Band on surface and bedded on
do	Double Stream	Walking, 1 rear wheel, 1 horse	Vibrating cyl.-top delivery	30 to 540	Row Crops	Two bands 6" apart deposited behind law sweep
do	Eureka 140	Walking, 1 rear wheel, 1 horse	Knocker, double drive	(a)	Row Crops	Band in shovel furrow, depth adj.
do	Eureka 171	Walking, 1 front wheel, 1 horse	Trin screw	300 to 4500	Row Crops	Band in shovel furrow, depth adj.
do	Iron Age 471	Riding, 2 wheel, 2 horse	Trin screw	300 to 4500	Row Crops	Band in shovel furrow, depth adj.
do	McFarther 11	Walking, 2 wheel, 1 horse	Endless belt	(a)	Row Crops	Two bands 6" apart and bedded on
do	Cantt Mfg. Co.	Walking, 1 rear wheel, 1 horse	Rotating wing agitator	300 to 3750	Row Crops	Band on surface or in open furrow thru adj. tubes
do	Covington, W. F. Eureka Mover Co.	Walking, 1 front wheel, 1 horse	Knocker, double drive	50 to 500	Row Crops	Band in shovel furrow, depth adj.
do	do	Walking, 3 wheel, 1 horse	Trin screw	100 to 1000	Row Crops	Band in open furrow and covered, depth adj.
do	Farghah, A.B., Co., Ltd.	Riding, 2 wheel, 2 horse	Knocker hopper	(a)	Row Crops	Band in shovel furrow, depth adj.
do	Gant 6	Walking, 1 rear wheel, 1 horse	Vibrating open-end pan	(a)	Row Crops	Band in open furrow and covered
do	Universel	2 wheel, 1 horse	Rotating agitator	100 to 2000	Row Crops	Band in open furrow or broadcast on surface
do	Perfection	Walking, 1 front wheel, 1 horse	Knocker	Wide range	Row Crops	Band in open furrow and covered
do	Gant 1	Walking, 1 front wheel, 1 horse	Rotating agitator	50 to 500	Row Crops	Two bands in furrows or mixed with soil in row (a)
do	Gant 2	Walking, 1 front wheel, 1 horse	Rotating wing agitator	100 to 1000	Row Crops	Band in shovel furrow, depth adj.
do	Gant 3	Walking, 1 rear wheel, 1 horse	Knocker hopper	(a)	Row Crops	Band in open furrow and covered
do	Gant 4	Walking, 1 rear wheel, 1 horse	Vibrating open-end pan	(a)	Row Crops	Band in shovel furrow, depth adj.
do	Gant 5	Walking, 1 front wheel, 1 horse	Rotating agitator	100 to 2000	Row Crops	Band in open furrow and covered
do	Haines, W. D.	Walking, 2 wheel, 1 horse	Knocker	Wide range	Row Crops	Band in open furrow or broadcast on surface
do	Hardy and Newson	Walking, 1 front wheel, 1 horse	Rotating agitator	50 to 500	Row Crops	Band in open furrow and covered
do	Harrison Mfg. Co.	Walking, 1 front wheel, 1 horse	(a)	Row Crops	Two bands in furrows or mixed with soil in row (a)	
do	International Harry Co.	Walking, 1 front wheel, 1 horse	Vibrating pan	100 to 2000	Row Crops	Band in shovel furrow, depth adj.
do	Kelly, G.A., Plow Co.	Walking, 1 rear wheel, 1 horse	Rotating agitator	(a)	Row Crops	Band in open furrow and covered
do	do	Walking, 1 front wheel, 1 horse	Rotating agitator	100 to 2000	Row Crops	Band in shovel furrow, depth adj.
do	Pearson 142, Ge. Cracker 2 & 3, and Ge. Boy 5	Walking, 1 rear wheel, 1 horse	Rotating pan	(a)	Row Crops	Band in open furrow and covered
do	King Plow Co.	Walking, 1 front wheel, 1 horse	Knocker hopper	(a)	Row Crops	Band in furrow, (Fert. & Seed Hoppers interchangeable)
do	do	Walking, 1 rear wheel, 1 horse	Rotating agitator	300 to 4000	Row Crops	Band 6 to 10" wide in open furrow
do	do	Walking, 1 rear wheel, 1 horse	Knocker hopper	(a)	Row Crops	Band in shovel furrow, depth adj.
do	Georgia	Walking, 1 rear wheel, 1 horse	Vibrating pan	(a)	Row Crops	Band in shovel furrow, depth adj.
do	Camp	Walking, 1 rear wheel, 1 horse	Vibrating open-end pan	(a)	Row Crops	Band in shovel furrow, depth adj.
do	Giant	Walking, 1 front wheel, 1 horse	Knocker	(a)	Row Crops	Band in open furrow and covered
do	Southern Plow Co (Columbus, Ga.)	Walking, cart, 1 horse	Vibrating pan	(a)	Row Crops	Band in surface furrow, (Fert. & Seed Hoppers interchangeable)
do	Georgia	Walking, 1 rear wheel, 1 horse	Vibrating pan	(a)	Row Crops	Two bands 6" apart in furrows and bedded on
do	Todd 3	Walking, 1 front wheel, 1 horse	Vibrating pan	(a)	Row Crops	Band in open furrow
do	Todd 5	Walking, cart, 1 horse	Vibrating pan	(a)	Row Crops	Band 7" wide in open furrow and covered
do	Wayne Agricultural Works, Inc.	Walking, 1 front wheel, 1 horse	Vibrating pan	(a)	Row Crops	Band in open furrow
do	White's, S.R., Sons, Inc.	Walking, 1 front wheel, 1 horse	Vibrating pan	(a)	Row Crops	Band in open furrow
do	Whitehurst, R.W., Mfg. Corp.	Walking, 1 front wheel, 1 horse	Vibrating pan	(a)	Row Crops	Two bands 6" apart in furrows and bedded on
do	White Mfg. Co.	Walking, 1 front wheel, 1 horse	Vibrating pan	(a)	Row Crops	Wide range

\*Cole Mfg. Co.

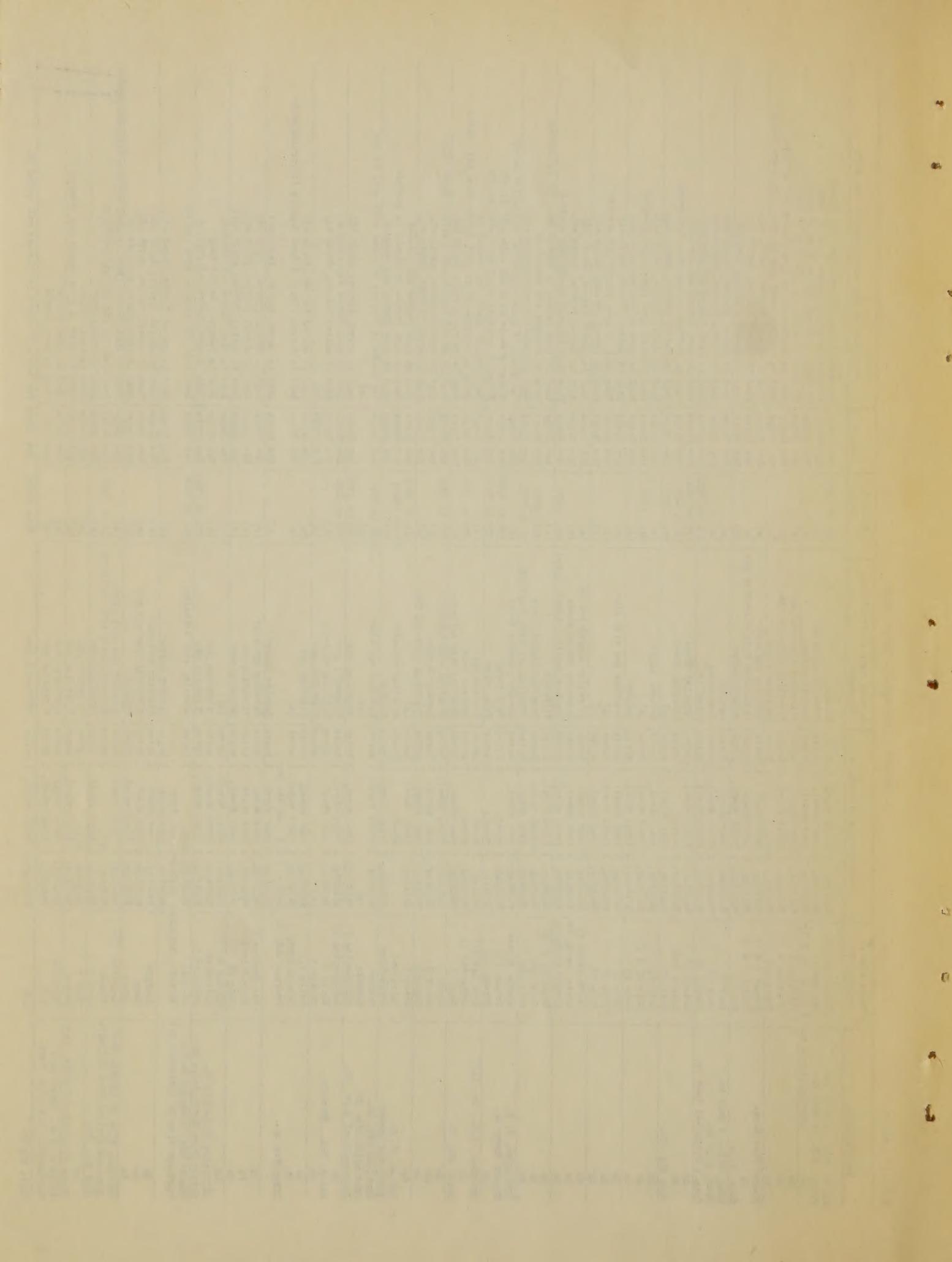


Table II (page 4)

## 8. TWO-ROW DISTRIBUTORS

Manufacturer	Trade name or Catalog No.	General type of machine	Size, No. of rows	General type of fertilizer dispenser	Rates in lbs./A	Crops or conditions
American Cyanamid Co.						Placement of the fertilizer in the soil
Eureka Mower Co.	Miller	Cart, Cart, Cart,	2 horse 2 row	Rotating vertical spider	50 to 500	Band on surface or in open furrows
Farquhar, A. B., Co., Ltd.	Eureka 172	Cart, Cart, Cart,	2 horse 2 row	Trin screw	300 to 4500	Either 2 bands or mixed with soil in row
Farquhar, A. B., Co., Ltd.	McWhorter 12413	Cart, Cart,	1 horse 2 row	Endless belt	200 to 2000	On surface or in open furrows thru adj. tubes
Haines, W. D., Co., Ltd.	Universal	Cart, Cart,	1 and 2 horse	Rotating agitator	Wide range	Band or broadcast on surface
International Harvester Co.	Tractor mounted	Tractor mounted	2 row	Rotating pan & adj. plows	0 to 3000	Band and bedded on
Ontario Drill Co.	Bedier F-1	Cart, Cart,	1 horse	Reel agitator	200 to 3000	Bands on surface thru tubes spaced as desired
Pender Mfg. & Supply Co.	So-rite	Cart, Cart,	1 horse or tractor	Rotating plate with deflector	75 to 3400	Two bands and bedded on
Syracuse Chilled Plow Co.(Deere)	Hoover	Cart, Cart,	1 horse	Vibrating pan	(a)	Bands in open furrows thru adj. tubes
Todd Co., Inc.	Todd 8	Cart, Cart,	2 row	Vibrating pan	Row crops	

## 9. THREE OR MORE-ROW DISTRIBUTORS

Eureka Mower Co.	Eureka 173	Cart, Cart, Cart,	2 horse 3 row	Trin screw	300 to 4500	Widely spaced rows
Farquhar, A. B., Co., Ltd.	McWhorter 13444	Cart, Cart, Cart,	1 and 2 horse 3 & more	Endless belt	Wide range	Row crops
Farquhar, A. B., Co., Ltd.	Eureka 172	Cart, Cart,	1 and 2 horse 3 & more	Rotating agitator	Row crops	On surface or in open furrows thru adj. tubes
Haines, W. D., Co., Ltd.	Universal	Tractor mounted	4 row	Rotating dashed plate	Max. 500	Row crops
International Harvester Co.	PA-27	Cart, Cart,	2 horse 3 & more	Finger wheel	40 to 2000	Row crops
Ontario Drill Co.	Ontario 3	Cart, Cart,	1 and 2 horse 3 & more	Reel agitator	200 to 5000	Row crops
Pender Mfg. & Supply Co.	So-rite	Cart, Cart,	1 horse	Vibrating pan	(a)	Row crops
Todd Co., Inc.	Todd 7 & 15	Cart, Cart,	1 horse 3 & more	Vibrating pan	Row crops	

## 10. DISTRIBUTORS COMBINED WITH DRILLERS - PUSHER BY HAND

Allen, S. L. & Sons, Co., Inc.	Plant Jr 320	1 front, 1 rear wheel	1 row	Knocker-oscill. circ. pan (Gasper)	100 to 1000	Vegetable crops
do	Iron King 45	1 front, 1 rear wheel	1 row	(a)	Vegetable crops	
Ellis-Keystone Agricultural Mfg.	Iron Age 322	2 wheel	1 row	Rotating plate, descending	(a)	
do	Marvel	1 front wheel	1 row	Vertical feed wheel	50 to 2500	Vegetable crops
Marvel Seeder Co., Inc.						

## 11. DISTRIBUTORS COMBINED WITH ONE-ROW, WALKING TYPE PLANTERS - ONE HORSE

Avery, B. F. & Sons, Co., Inc.	Shawnee & Dixie	1 front wheel	Rotating pan with plow	(a)	Cotton, corn, etc.	Mixed with soil above seed. Deposited, front of seed shoe
do	Bobtail	1 rear wheel	Rotating plate	(a)	Corn, beans, etc.	Spot 2 1/2" behind seed hill in same furrow
do	New Union	1 rear wheel	Rotating plate	(a)	Drilled, band directly over seed	Drilled, (a)
do	Terrace King	2 wheel	Rotating pan with plow	(a)	Cotton, corn, etc.	Drilled, (a)
do	Blount 52	1 rear wheel	(a)	Corn, beans, etc.	In furrow above seed	
do	Bradley 453	1 rear wheel	Star wheel & agitator	(a)	Corn, beans, etc.	Drilled, in furrow directly above seed
do	Bradley	(a)	Star wheel & agitator	(a)	Corn, beans, etc.	Drilled, in furrow directly above seed
Campbell-Bansfeld Co.	Campbell 111	1 front wheel	(a)	Corn, beans, etc.	Drilled, in furrow with seed	
Case, J. I., Co.	47 (B50 Pltr)	1 rear wheel	Knocker	25 to 500	Cotton, corn, etc.	
do	47 (B51 Pltr)	2 wheel	Rotating pan with plow	(a)	Drilled, 1 1/2" band, 1/2" to each side, 1/2" above seed level	
Cole Manufacturing Co.	Cole 3 & 4	1 rear wheel	Rotating pan with plow	(a)	Drilled, (a)	
do	Cole 7 & 8	2 wheel	Rotating pan with plow	(a)	Drilled, (a)	
do	Cole 10 & 14	2 wheel	Rotating pan with plow	(a)	Drilled, (a)	
do	Cole 12 & 16	1 A-wheel, swing beam	Rotating pan with plow	(a)	Drilled, (a)	
do	Clark	1 rear wheel	(a)	Corn, beans, etc.	Hill or drill, band at each side of hill, on seed level	
Cutaway Harrow Co.	John Deere 108	1 front wheel	Rotating pan with plow	50 to 250	Drilled, band 1" wide, 1 to 2" directly under seed	
Deere & Mansur Works	John Deere 227	1 rear wheel	Rotating plate with deflector	50 to 200	Drilled, band 4" wide, 1" to each side, 1" above seed level	
do	John Deere 245	1 front wheel	Rotating pan with plow	50 to 300	Drilled, band 1 1/2" wide, about 1" directly above seed	
Eureka Mower Co.	Eureka 2	1 front wheel	Star wheel	115 to 600	Drilled, band each side of row	
Gantt Manufacturing Co.	Gantt	1 front wheel	(a)	Cotton	Drilled, in furrow with seed	
do	Gantt 1	1 rear wheel	Rotating agitator	(a)	Drilled, band under seed	
do	Gantt 4	1 rear wheel	Rotating plate	(a)	Drilled, band under seed	
International Harvester Co.	P & O 156 A	1 front wheel	Rotating flat plate	50 to 350	Drilled, in seed furrow	
do	P & O 19	1 rear wheel	Vibrator	(a)	Drilled, band under seed	
do	McC-Deering	1 front wheel	Vibrating open-end pan	(a)	Drilled, band under seed, depth adjustable	
do	McC-D. 165 & 165	1 rear wheel	(a)	Cotton, corn, etc.	Drilled, (a)	
Massey-Harris Co.	Massey-H. 1254126	1 front wheel	Rotating pan with plow	0 to 700	Drilled, either in furrow with or under seed	
Minneapolis-Moline Power Imp Co	J G	1 rear wheel	Rotating pan with plow	0 to 700	Drilled, band under seed	
Ohio Cultivator Co.	G F	1 front wheel	(a)	Cotton, corn, etc.	Drilled, (a)	
do	Blackhawk	1 front wheel	(a)	Cotton, corn, etc.	Drilled, band under seed	
do	Blackhawk 160	1 front wheel	(a)	Cotton, corn, etc.	Drilled, band under seed	
Oliver Farm Equipment Sales Co	Short Boy 63	1 rear wheel	Rotating plate	100 to 800	Drilled, in furrow above seed	
do	Oliver 6A & 7	1 rear wheel	Finger wheel	40 to 650	Drilled, in furrow under seed	
do	Oliver 51 & 52 1/2	1 front wheel	(a)	Cotton, corn, etc.	Drilled, (a)	
Sargent, Osgood & Roundy Co.	Eclipse	1 rear wheel	Revolving blade-top delivery	50 to 600	Hill or drill, band 6" long, 2" to each side on seed level	
do	King of Cato 7	1 rear wheel	(a)	Corn, beans, etc.	Hill or drill, band 6" long, 2" to each side on seed level	
Southern Plow Co. (Dallas, Tex.)	Ledbetter 20	1 front wheel	Rotating pan with plow	50 to 700	Cotton, corn, etc.	
do				50 to 500	Drilled, band under seed	
Stolle Mfg. Co.				Max. 400	Cotton, beans, etc.	Band 2.5" to one side of row - depth adjustable
Planters 12,16,41 Disc at-ach. only				---		



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## 12. DISTRIBUTORS COMBINED WITH RIGID FRAME TWO-WHEEL RIDING-TYPE PLANTERS - HORSE DRAWN

Manufacturer	Trade name or Catalog No.	General type of machine	Size, No. of rows	General type of fertilizer dispenser	Rates in lbs./A	Crops or conditions	Placement of the fertilizer in the soil
Avery, B.F., & Sons Co.	Mr. Bill	Ridge or list furrow	1 & 2 row	Vibrating open-end pan (17) Cone: (22) Star wheel	(a)	Cotton, corn, etc.	Drilled, at one side of seed furrow
Case, J.I., Co.	Case 17 & 22	Ridge or list furrow	1 & 2 row	(a)	Cotton, corn, etc.	Drilled, sides; deposited ahead of seed shovel	
Deere and Mansur Works	J. Deere 111	Ridge or list furrow	1 & 2 row	Rotating pan with plow	50 to 300	Cotton, corn, etc.	Drilled, $\frac{1}{2}$ " to sides, 1" above seed level
Farquhar, A.B., Co., Ltd.	Iron Age 481	Ridge or level	1 & 2 row	Endless belt	Wide range	Cotton, etc.	Drilled, 2" band, 2.5" to each side - Depth adj.
do	Iron Age 491	Ridge or level	1 & 2 row	Endless belt	(a)	Beans, etc.	Drilled, 2" band, 2.5" to each side - Depth adj.
do	Farquhar	Ridge or level	2 row	Finger wheel	(a)	Corn, etc.	Drilled, (a)
International Harvester Co.	Tip-top 22 & 23	Ridge or list furrow	1 & 2 row	(a)	Cotton, corn, etc.	Drilled, 2" band, 2.5" to one side, above seed level	
Kelly, G.A., Plow Co.	Davy Crockett	Ridge or list furrow	1 row	(a)	Cotton, corn, etc.	Drilled, sides; deposited ahead of seed shovel	
Massey-Harris Co.	Massey-Harris	Ridge or list furrow	1 & 2 row	Rotating flat plate	25 to 200	Cotton, corn, etc.	Drilled, sides and above seed
Minneapolis-Moline P. Imp Co.	D-P	Ridge or list furrow	1 row	(a)	Cotton, corn, etc.	Drilled, sides; deposited ahead of seed shovel	
Oliver Farm Equip. Sales Co.	26	Ridge or list furrow	1 row	(a)	Cotton, corn, etc.	Drilled, sides; deposited ahead of seed shovel	
Southern Plow Co. (Dallas, T.)	Ledbetter 8	Ridge or list furrow	1 row	Rotating pan with plow	50 to 500	Cotton, corn, etc.	Drilled, sides; deposited ahead of seed shovel

## 13. DISTRIBUTORS COMBINED WITH TWO-ROW, ADJUSTABLE RUNNER-FRAME (CORN BELT TYPE) PLANTERS - HORSE DRAWN

Avery, B.F., & Sons Co.	Sure drop	Rotating pan with plow	(a)	Cotton, corn, etc.	Hill or drill, sides above seed - plain divider	
do	Twin drive	Rotating pan with plow	(a)	Cotton, corn, etc.	Drill, in furrow above seed	
Blount Plow Works	Blount	Star wheel and agitator	(b)	Corn, beans, etc.	Drilled, in furrow above seed	
Bradley, David, Mfg. Wks.	Bradley 497	Dual band 33	25 to 800	Corn, beans, etc.	Hill or drill, band 6" long directly above seed	
Case, J.I., Co.	32 M	Rotating pan	(a)	Cotton, corn, etc.	Hill or drill, 2" band, 11" long, 1" to each side, $\frac{1}{2}$ " above seed	
Deere & Mansur Works	J. Deere 45; 999	Rotating plate	75 to 250	Corn, beans, etc.	Drilled, (a)	
do	J. Deere 436; 919	Rotating pan with plow	75 to 700	Corn, beans, etc.	Hill or drill, 1" band, 1" to each side, $\frac{1}{2}$ " above seed level	
Engineering Metal Prod. Corp	Chambers, runner, only	Rotating pan with plow	75 to 700	Corn, beans, etc.	Drilled, 1" band, $\frac{1}{2}$ " band 6" long, 1" to one side, $\frac{1}{2}$ " below seed level	
Farmer Power Co.	Eureka 4	Star wheel	115 to 800	Corn, beans, etc.	Drilled, band at each side of row	
Farm Tools, Inc.	Hayes 44	(a)	50 to 500	Corn, beans, etc.	Hill or drill, short band at side of hill	
International Harvester Co.	McC-Deering 100 Sr	Rotating pan with plow	Max. 400	Cotton, corn, etc.	1" band 6" long, 1" to each side, adj. 0-2" above seed level	
do	P & O 20 & 34	Star wheel	(a)	Corn, beans, etc.	Hill or drill, 1" band, 6" long, 1" to each side, adj. 0-2" above seed level	
Madison Plow Co.	Madison 19; Victor 20	Rotating plate	25 to 200	Corn, beans, etc.	Drilled, band each side of row	
Massey-Harris Co.	Split-boot	Rotating flat plate	25 to 200	Corn, beans, etc.	Hill or drill, mixed with soil above seed	
do	Single boot	Rotating flat plate	25 to 200	Corn, beans, etc.	Hill or drill, $\frac{1}{2}$ " band 8" long, 1" to each side, adj. seed level to surface	
Minneapolis-Moline P. Imp Co.	Moline 25 & 26	Rotating pan with plow	0 to 700	Corn, beans, etc.	Hill or drill, 2" band 8" long, directly above adj. from seed to surface	
do	Four-wheel	(a)	0 to 800	Cotton, corn, etc.	Hill or drill, at sides and behind hill	
Ohio Cultivator Co.	Blackhawk (several)	Rotating pan with plow	50 to 600	Corn, beans, etc.	Hill or drill, (a)	
Oliver Farm Equip. Sales Co.	Oliver 98	Star wheel	50 to 600	Corn, beans, etc.	Hill or drill, band at each side above seed level	
Rock Island Plow Co.	Rock Island 1 & 555	(a)	Ref. blade-top delivery	50 to 600	Corn, beans, etc.	Hill or drill, 1" band 6" long, 2" to each side, on seed level
Sargent, Osgood & Roundy Co.	Eclipse					

## 14. DISTRIBUTORS COMBINED WITH TRACTOR PLANTERS - TWO OR MORE-ROWS

Case, J.I., Co.	Caterpillar 604	Tractor mounted, motor lift	4 row	Rotating pan	25 to 800	Corn, beans, etc.	Hill or drill, 2" band 11" long, 1" to each side, $\frac{1}{2}$ " above seed level
Deere & Mansur Works	250	Tractor mounted	2 row	Rotating pan	75 to 500	Cotton, corn, etc.	Drilled, band 1" wide, $\frac{1}{2}$ " to one side, $\frac{1}{2}$ " deep
do	Ck-row GP 150	Tractor drawn	4 row	Bo. pan with plow	(a)	Corn, etc.	Hill or drill, band each side slightly above seed level
Farquhar, A.B., Co., Ltd.	Ck-row GP 201	Tractor mounted	3 row	Endless belt	(a)	Corn, etc.	Hill or drill, band each side slightly above seed level
International Harvester Co.	Iron Age 461 & 491	Tractor drawn	2, 3, 4 row	Rotating pan	50 to 500	Cotton, beans, etc.	Drilled, 2" band, $\frac{1}{2}$ " to each side - depth adjustable
do	do	Tractor drawn	2, 4 row	Rotating agitator	200 to 900	Cotton, corn, etc.	Drilled, band at one side of row - depth adjustable
do	Farmall 11-12 (37A)	Tractor mounted	3, 4 row	(a)	0 to 700	Cotton, corn, etc.	Hill or drill, (a)
do	M-W 24-row	Tractor drawn	2, 4 row	(a)	(a)	Cotton, corn, etc.	Row crop
do	Row crop	Tractor mounted, lister type	2 row	(a)	(a)	Cotton, corn, etc.	Drilled, band either each side or above seed

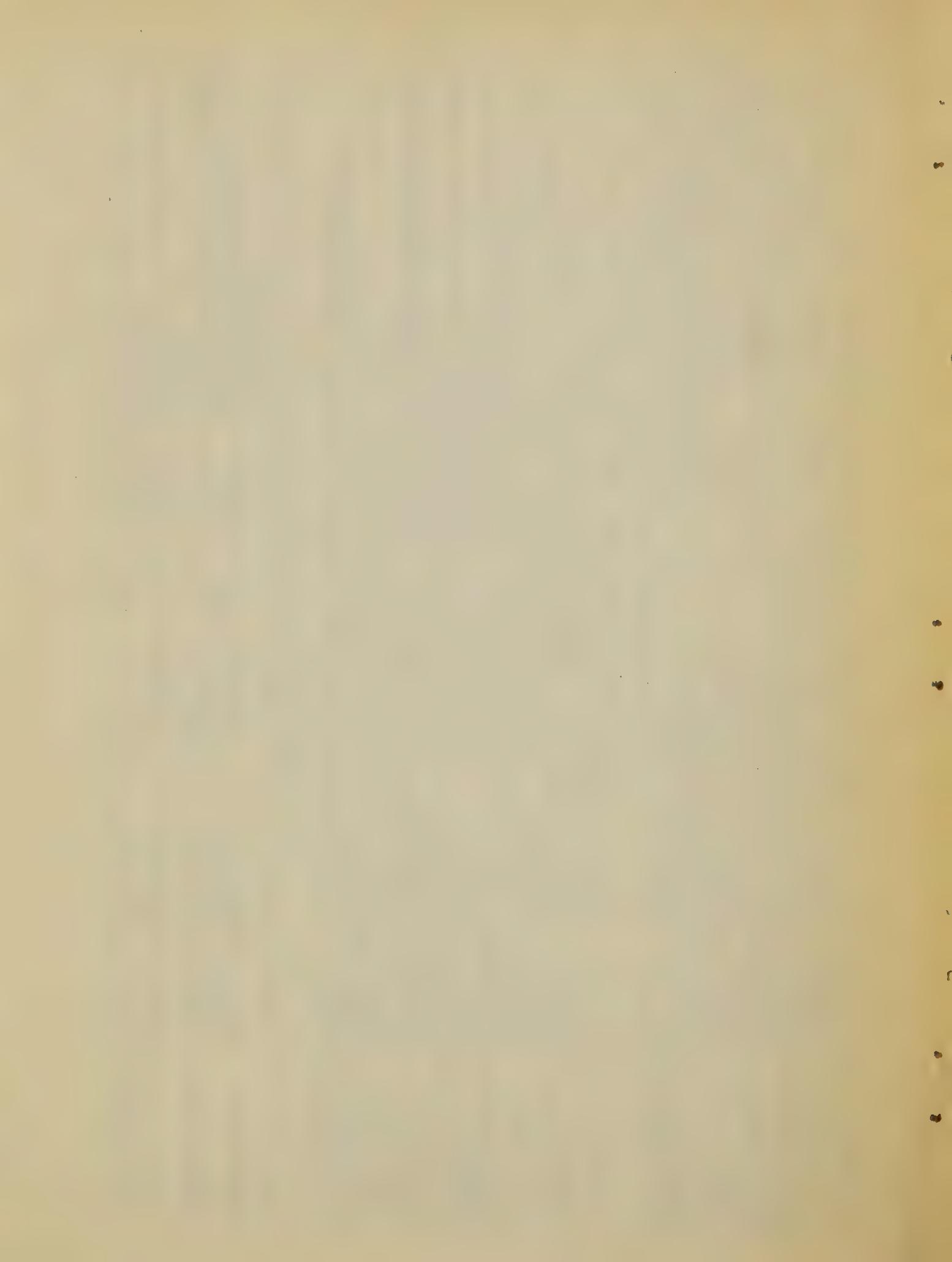


Table II (page 6)

## 15. DISTRIBUTORS COMBINED WITH BENT AND BLAN DRILLS

Manufacturer	Trade name or Catalog No.	General type of machine	Size	General type of fertilizer dispenser	Rates in lbs./A	Crops or conditions for which intended	Placement of the fertilizer in the soil
Case, J.I. Co.	45	Tractor mounted, motor lift	6 row	Rotating pan	25 to 800	sugar beets, beans, etc	Drilled, in furrow with seed
do	Case	Horse drawn	1 row	Star wheel	60 to 780	sugar beets, beans, etc	Drilled, in furrow with seed
Deere & Manleur Works	J Deere 64	Planter-cultivator, 2 horse	2 row	Rotating plate with plow	(a)	sugar beets, beans, etc	Drilled, in furrow with seed
do	J Deere 11,12,14 & J Deere 22	Planter-cultivator, 2 horse	4 row	Rotating pan with plow	(a)	sugar beets, beans, etc	Drilled, band each side above seed level
International Harvester Co.	McC-D. 6 & 7	Tractor or horse drawn	4 row	Star wheel	50 to 524	sugar beets, beans, etc	Drilled, in furrow with seed
Minneapolis-Moline P Imp. Co.	Minneapolis-Moline DM-6	2 horse	4 row	Star wheel & adj. rate	72 to 580	sugar beets, beans, etc	Drilled, in furrow with seed
Ohio Cultivator Co.	Thomas	2 horse	4 row	Finger wheel	50 to 1000	sugar beets, beans, etc	Drilled, in furrow with seed
Oliver Farm Equip. Sales Co.	Oliver 9	2 horse	4 row	Finger wheel	60 to 290	sugar beets, beans, etc	Drilled, in furrow with seed
Minneapolis-Moline P Imp Co	10N	Drill or Check-row, tractor	6 row (a)		50 up	sugar beets, beans, etc	Drilled either above or at side of seed

## 16. DISTRIBUTORS COMBINED WITH POTATO PLANTERS

Aspinwall-Watson Co.	Aspinwall	Picker wheel, horse drawn	1 & 2 row	Vertical paddle wheel	(a)	Potatoes	Drilled, mixed with soil at sides of row
Bradley, David, Mfg. Works	B-Schofield 5	Endless conveyor, horse drawn	1 row	Star wheel & agitator	(a)	Potatoes	Drilled, mixed with soil 3" to one side
Champion Corporation	Champion 22	Cup chain, horse drawn	1 & 2 row	Star wheel	200 to 1500	Potatoes	Drilled, ahead of seed shoe - mixed in row
Ohio Cultivator Co.	Star	Picker wheel, also bucket type 1 & 2 row	(a)		(a)	Potatoes	Drilled, ahead of seed shoe - mixed in row
Eureka Mower Co.	Eureka 26	Picker wheel, horse drawn	1 & 2 row	Twin screw	(a)	Potatoes	Drilled, band at each side of row
Farquhar, A.B., Co., Ltd.	Iron Age	Assisted & horses, tractor	1 to 4 row	Endless belt	300 to 3750	Potatoes	Drilled, 2" band, 2" to each side, depth adj.
do	Iron Age	Picker wheel, horses, tractor	1 to 4 row	Endless belt	300 to 3750	Potatoes	Drilled, 2" band, 2" to each side, depth adj.
International Harvester Co.	McC-Deering	Picker wheel, horse & tractor	1 & 2 row	Rotating plate with plow	150 to 3000	Potatoes	Drilled, 2" band, 2" to each side, depth adj.
LeBoy Plow Co.	Evans Superior	Picker wheel, horse & tractor	1 & 2 row	Star wheel	100 to 1800	Potatoes	Drilled, band each side of row
North Star Mfg. Co.	North Star	Fertilizer hopper only	1 per row	Endless link chain	(a)	Potatoes	Drilled, (a)
Oliver Farm Equip Sales Co.	Oliver 5 & 55	Picker wheel, horse & tractor	1 & 2 row	Double-fan paddle	0 to 3000	Potatoes	Drilled, 2" band, 3" to each side & above
Peek, S.H., & Sons	Aurora	Picker wheel, horse & tractor	1 row	Rotating plate	250 to 1800	Potatoes	to 14" above seed
Syracuse Chilled Plow Co (Deere)	John Deere	Picker wheel, horse & tractor	1 & 2 row	Rotating plate & deflector	100 to 3400	Potatoes	Drilled, band either at each side or in row

## 17. DISTRIBUTORS COMBINED WITH GRAIN DRILLS

Case, J.I. Co.	Case 34 & 36	End wheel, horse & tractor	Range	Star wheel with adj. gate	60 to 1120	Small grain	Drilled, in furrow with seed
do	30	Walking, 1 front wheel, 1 horse	3 run	Star wheel (a)	(a)	Small grain	Drilled, in furrow with seed
do	Needham-Orton	End wheel, horse drawn	1 horse	1 run	Star wheel with adj. gate (a)	Small grain	Drilled, in furrow with seed
do	Farm Tools, Inc.	End wheel, horse & tractor	6 to 12 run	Star wheel with adj. gate	100 to 825	Small grain	Drilled, in furrow with seed
Farquhar, A.B., Co., Ltd.	Peoria	Walking, 3 wheel, 1 horse	5 run	Star wheel with adj. gate	80 to 1000	Small grain	Drilled, in furrow with seed
Farquhar, A.B., Co., Ltd.	Farghabar	End wheel, horse drawn	8 to 12 run	Star wheel with adj. gate	0 to 1030	Small grain	Drilled, in furrow with seed
Gantt Manufacturing Co.	Gantt	Walking, 1 front wheel, 1 horse	1 row	Star wheel with adj. gate (a)	Qata	Drilled, in furrow with seed	
International Harvester Co.	McC-Deering	End wheel, horse & tractor	6 to 28 run	Star wheel with adj. gate	25 to 1135	Small grain	Drilled, in furrow with seed
do	McC-Deering	Walking, 3 wheel, 1 horse	5 run	Star wheel with adj. gate (a)	---	Small grain	Drilled, in furrow with seed
do	McC-Deering	Separate fert. delivery attach	---	---	---	Small grain	Drilled, in furrow above seed, distance adj.
King Drill Mfg. Co.	King	Conventional, Horse & tractor	10 to 20 run	(a)	Small grain	Drilled, in furrow with seed	
Kingsey-Sarris Co.	Massey-H 20B	End wheel, horse & tractor	9,11,13 run	Star wheel	50 to 800	Small grain	Drilled, in furrow with seed
do	Monitor G Sr	Monitor G	10 & 12 run	Star wheel	(a)	Small grain	Drilled, in furrow with seed
Ohio Cultivator Co.	Thomas	End wheel, horse drawn	6 to 24 run	Flager wheel	60 to 2400	Small grain	Drilled, in furrow with seed
Ohio Farm Equip Sales Co.	Superior	End wheel, horse & tractor	Range	(a)	Small grain	Drilled, in furrow with seed	
do	10	Walking, 3 wheel, 1 horse	5 run	(a)	Small grain	Drilled, in furrow with seed	
Ontario Drill Co.	Ontario	End wheel,	2 horse	6 to 15 run	Finger wheel	75 to 900	Small grain
Van Brunt Mfg. Co. (Deere)	Van Brunt F	End wheel, horse & tractor	9 to 16 run	Star wheel with adj. gate	24 to 1225	Small grain	Drilled, either 1" band, 2" to one side,
do	Van Brunt	End wheel, horse & tractor	12 to 28 run	Star wheel with adj. gate	15 to 500	Small grain	do in furrow with seed or above
do	Van Brunt	Walking, 3 wheel, 1 horse	5 run	Star wheel with adj. gate	60 to 1070	Small grain	do in furrow with seed or above



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## 16. DISTRIBUTORS COMBINED WITH TRANSPLANTERS

Manufacturer	Trade name or Catalog No.	General type of machine	Size	General type of fertiliser dispenser	Rates in Lbs./A.	Gross or conditions for which intended	Placement of the fertiliser in the soil
Empire Plow Co.	Tiger & Dayton	Manual	1 row	(a) Endless belt	(a)	Tomatoes, tobacco, etc.	Drilled, at one side of row
Farquhar, A.B., Co. Ltd.	Iron Age 500B	Manual	1 row	Descending scraper & seed wheel	150 to 2500	Tomatoes, tobacco, etc.	Drilled, mixed with soil in row
do	Iron Age 500D	Manual	1 row	(a) Rotating flat plate	(a)	Tomatoes, tobacco, etc.	Drilled, mixed with soil in row
Hamilton Mfg. Co.	Hamilton H	Conveyor, mech. setting	1 row	(a) Rotating flat plate	(a)	Tomatoes, tobacco, etc.	Hill or drill, band each side, location adj.
Holland Seeder Pl. Co.	Holland	Conveyor, mech. setting	1 row	(a) Rotating flat plate	(a)	Tomatoes, tobacco, etc.	Drilled, band 1" wide, 3" to each side, 3" below surface
Madison Plow Co.	Bombs	Manual	1 row	(a) Rotating plate, 3 deflectors	25 to 600	Tomatoes, tobacco, etc.	Drilled, mixed in iron - deposited on surface ahead of planting shoe
Massey-Harris Co.	Massey-Harris 3	Manual	1 row	Rotating plate, 3 deflectors	25 to 600	Tomatoes, tobacco, etc.	Drilled, 2" band 4" to 6" either to one or each side and band over row, adj. to 3" depth
do	Massey-Harris 3	Manual	1 row	Rotating plate, 3 deflectors	25 to 600	Tomatoes, tobacco, etc.	Drilled, in row - deposited in furrow ahead of shoe
New Ideas, Inc.	New Ideas	Manual	1 row	Rotating plate, 3 deflectors	100 to 1500	Tomatoes, tobacco, etc.	Drilled, band 1 1/2" wide, 5" to each side and mixed in center; depth adj. 2 to 5"

## 19. DISTRIBUTORS COMBINED WITH CULTIVATORS AND HARRROWS

Allen, S.L. & Co., Inc.	Planet Jr 230	Walking, 1 front wheel, 1 horse 1 row	Knocker	200 to 2000	Row crops, irrigated	Band or broadcast 12-22" strip, covered or mixed
do	Planet Jr 230A	Walking, 2 front wheels, 1 horse 1 row	Knock or Vibrating 2-stream pan	200 to 2000	Row crops, flat land	Band or broadcast 12-22" strip, covered or mixed
Avery, B.F. & Sons Co.	Vibrator	Walking, plow stock attach.	1 or 2 row Rotating pan with plow	(a)	Row crops	Two bands thru adj. tubes ahead of cultivator sweep
do	Attachment	Walking & riding, wheel cult.	1 row Rotating pan	(a)	Row crops	Band either side of row in furrows, position adj.
Blount Plow Works	Blount	Walking & riding, wheel cult.	1 row Rotating pan with plow	(a)	Row crops	Band each side of row in furrows or mixed
Case, J. I., Co.	Case 44	Tractor mounted	1 row Rotating pan	25 to 500	Row crops	Band each side of row in furrows, position adj.
do	Case 32	Riding, wheel	2 horse 1 row Rotating pan	25 to 500	Row crops	Band each side of row in furrows, position adj.
Deere & Mansur Works	J Deere 64	Sliding, wheel	2 horse 2 row Rotating pan with plow	(a)	Sugar beets, beans, etc.	Band each side of row in furrows, position adj.
do	KL 211	Riding, wheel	2 horse 1 row Rotating pan with plow	(a)	Corn, similar row crops	Band each side of row in furrows, position adj.
do	John Deere	Tractor mounted	2 row	(a)	Cotton, etc.	Band at side of row in furrows, position adj.
Fertilizer Attach. Co.	(a)	Walking, harrow	1 horse 1 row	(a)	Row crops	(a) Spots 12 to 45s apart, operated by hand or floating
Fresh Air Pump & Mfg. Co.	U and J	Attach. only, any cultivator	-----	(a)	Row crops	Either 2 bands or mixed with soil; 2 rows side-dr.
Harriman Mfg. Co.	Towler	Walking cult. & plows,	1 horse 1 row	Rotating actuator	50 to 500	Row crops
International Harv. Co.	New 4	Riding, wheel	2 horse 1 row	Rotating pan	0 to 1000	Row crops
do	McG-Deering 30	Riding, 3 wheel	2 horse 2 row	Rot. pan with adj. plow	50 to 400	Sugar beets, beans, etc.
do	North Star	Tractor mounted	2 row	(a)	Cotton, etc.	Band at side of row in furrow, position adj.
North Star Mfg. Co.	North Star	Attach. only, wheel cultivators	-----	Endless link chain	(a)	Band each side of row in furrows, position adj.
Ohio Cultivator Co.	Ohio	Riding, wheel	2 horse 1 row	(a)	Row crops	Band each side of row in furrows, position adj.
Todd Company, Inc.	Todd 5	Walking, 2 wheel	1 horse 1 row	Vibrating pan	(a)	Mixed with soil

## 20. DISTRIBUTORS COMBINED WITH DISC HARRROWS

Farm Tools, Inc.	Peoria	Broadcast drill	7 to 10 ft (a)	(a)	General	Band in each disc furrow

## 21. DISTRIBUTORS COMBINED WITH PLOWS

Allen, S.L. & Co., Inc.	Planet Jr 215	Attachment for garden plow	1 row	Knocker	100 to 1500	Vegetable crops, etc.
American Cyanamid Co.	Aero	Attachment, walking-plow stock	1 row	Gravity	25 to 200	Gen'l. granular fert.

## 22. DISTRIBUTING ATTACHMENTS FOR MATURE SPREADERS

Blom Mfg. Co.	New Bloom	Lime attachment	(a) Endless web & 4 disc spreaders	(a)	General, lime	Broadcast on surface
International Harv. Co.	McC-D. 44	Lime attachment	12 ft Endless web & 2 plate-fan scatterers	(a)	General, lime	Broadcast on surface
Litchfield Mfg. Co.	M	Lime attachment	8 ft Endless web & rotating wing scatterers	(a)	General, lime	Broadcast on surface
Minneapolis-Moline P. Imp. Co.	Moline	Lime attachment	(a) Endless web & 2 plate-fan scatterers	(a)	General, lime	Broadcast on surface
Oliver Farm Equip. Sales Co.	Superior	Lime attachment	(a) Endless web & 2 plate-fan scatterers	(a)	General, lime	Broadcast on surface
New Ideas Inc.	New Ideas	Lime attachment	(a) Endless web & 2 plate-fan scatterers	(a)	General, lime	Broadcast on surface

## 23. DISTRIBUTING ATTACHMENTS FOR WATERING AND IRRIGATION SYSTEMS

Electric Sprayit Co.	Plantilizer	Hose nozzle	(a) Soluble fertiliser cartridge	(a)	Lawn, etc garden hose	Broadcast on surface with water
do	Hydro-mixing	Nozzle & liquid container	(a) Vacuum syphon	(a)	Lawn, etc	Broadcast on surface with water
McClain Bros. Co., Ltd.	Hydro-Mixer	Barrel, pump and mixer	(a) Pumped into water line	(a)	Golf greens, etc.	Broadcast on surface with water
Soehnle Products Co., Ltd.	Soehnle	Sprays & dispenser unit	(a)	60 to 480 lbs/hr	Gen'l. gravity irrigation system	Row or broadcast with water
do	Schen	Venturi tube type	(a)	(a)	Lawn, garden hose	Row or broadcast with water
do	Schen	Mixing unit	(a)	(a)	Gen'l. small areas	Broadcast on surface with water
Thompson, O.E. & Sons	Thompson	Cart, barrel sprinkler	6 ft Agitator & gravity flow	(a)	Lawn, garden hose	Broadcast on surface with water
Ver Corporation	Ver	Mixing cylinder in water line	(a) Soluble fertiliser cartridge	(a)	Lawn, garden hose	Broadcast on surface with water

